

# Vrushali Panchal

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## Cancer Research and Scientist Profile

*Self-driven young professional eager to contribute to team success through hard work, attention to detail, and excellent organizational skills. Motivated to learn, grow, and excel in cancer research studies, drug clinical trials, pharmaceuticals, and laboratory-based environments.*

Highly-accomplished, a solutions-driven research scientist with a unique combination of molecular biology, biochemistry, and microbiology skills and experience acquired in clinical, and academic research labs. Adaptable to new procedures and technologies. Expertise in the use and operation of biochemical, molecular, analytical, and clinical techniques, as well as the application and use of various cell culture lines for drug delivery studies for cancer research. Ability to manage complex laboratory duties. Familiar with laboratory regulations, policies, and standards. Strong team-building capabilities with solid satisfaction rates from leaders and managers through high self-awareness and standards. Profoundly knowledgeable and resourceful scientist known for ensuring accuracy and timely delivery in extremely fast-paced environments. Detail orientated with expertise in various laboratory testing methodologies, equipment, disease states, and clinical significances.

## Core Competencies

Hallmarks of Cancer | Cancer Stem Cells, Metastasis, and the Microenvironment | Drug Discovery

Drug Development and Clinical Trials | Immunotherapy and Precision Oncology | Immunology | Biotechnology

**Skills:** Good Lab Practices (GLP) • Histology, staining, microscopy • Cell culture (primary and secondary) • RT-PCR • Electrophoresis (SDS-PAGE) • Blotting techniques (Western Blotting) • RNA and DNA extraction • TAQ-Path Multiplex Assay • Immunohistochemistry • Multiplex immunofluorescence • Data Analysis • Experimental Design • Standard Operating Procedures • Workflow and Strategic planning • Self-motivated • Cross-functional team leadership • Adaptability • Critical Thinking • Active Listening • Effective Communication • Microsoft office

## Career Highlights

**Dam Health, London, United Kingdom**  
Laboratory Supervisor

**November 2021 – October 2022**

Created quality control reports on monthly basis. Maintained equipment and facilities in good working order. Instructed Lab Technologists on proper use and maintenance of equipment to prevent injuries. Directed quality assurance standards to maximize results. Oversaw in-depth laboratory inspections and contributed to favorable outcomes. Engaged in instrument maintenance and basic troubleshooting of Quant Studio 5 Real-Time PCR, serving as primary operator of RT-PCR and reviewing QC and calibrator performance for test integrity. Analyzed clinical samples on RT-PCR, resolving unusual data trends and handling pipetting and instrument alarms as appropriate. Gathered laboratory samples, monitored graphs, and read test results to make accurate care decisions. Prioritized work assigned, maintained accurate records of work performed and initiated corrective action in case of defective records or inadequate care plans. Executed corrective actions when test controls were outside specified limits. Kept laboratory in compliance with all applicable guidelines and laws.

## Education

**Master of Science in Cancer Research and Precision Oncology**  
University of Glasgow, Glasgow, United Kingdom

**Bachelor of Science in Biotechnology**  
Mumbai University, Mumbai, India

## Key Projects

- Master's Research Project: Identification and development of p-Akt and PD-L1 as potential prognostic and predictive marker for bladder cancer detection |2021

The project aimed on testing and optimizing the conditions for using p-Akt and PD-L1 as biomarkers to detect tumor progression and reoccurrence of bladder cancer. Human bladder tumor cancer tissues and tonsillar tissues were analyzed for the expression of Akt, p-Akt and PD-L1 using multiplex immunohistochemistry. The expression was studied and analyzed using Hamamatsu S60 NanoZoomer scanner and NDP view software.

## Certifications

- Training in Hydroponics, 2020.
- Exploring Cancer Medicine Course, University of Leeds, 2019.
- In situ Synthesis of Bio nanoparticles, IIT Kharagpur, 2019.
- Microbiology & Forensic Science Course, 2017.
- Marine & Antarctic Science Course, University of Tasmania, 2017.
- Gene Manipulation in Plants, 2017.
- Training Camp, Kennedy Space Center (NASA), 2015